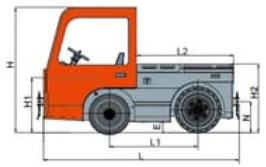
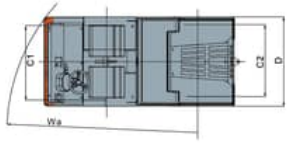
# G SERIES 8-15 t




## CHARGER TECHNOLOGY



- **High Efficiency**:Charging efficiency higher than 95% meeting the requirements of energy saving and emissions reduction
- **Speediness**:100% charging realized in 2 hours at the soonest
- **Compatibility**:48 v / 80 v compatibility meeting the demand of different voltage levels
- **Safety**:Built-in mis-connecting protection offering self isolating function under fault;
- Perfect fault self checking alarm facilitating users maintenance .

## SMART METER




- Truck working condition can be known directly and easily through reliable meter displaying important information such as truck working condition, fault and so on.

## RENEWABLE ENERGY TECHNOLOGIES

With AC type energy regeneration technology,
the working hour of single battery shift is 15% increased.

15%

## Technical parameters

| | Item | | Unit | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Model | | | QYD80-J1Li | QYD100-J1Li | QYD120-J1Li | QYD150-J1Li |
| 2 | Driving mode | | | Seated | | | |
| 3 | Reated towing weight | | kg | 8000 | 10000 | 12000 | 15000 |
| 4 | Service weight | | kg | 2470 | 2470 | 2510 | 2750 |
| 5 | Reated traction force | | N | 3200 | 3200 | 3200 | 4000 |
| 6 | Max. traction force | | N | 9500 | 9700 | 10000 | 13000 |
| 7 | Travelling speed （unloaded/loaded） | | km/h | 12/18 | 11/18 | 10/18 | 10/16 |
| 8 | Gradeability （unloaded/loaded） | | % | 10/20 | 8/20 | 6/20 | 5/20 |
| 9 | Overall dimension: LxWxH | | mm | 2950x1300x1820 | | | 3120×1300×1820 |
| 10 | Wheelbase | | mm | 1280 | | | 1465 |
| 11 | Tread | Front | mm | 1110 | | | |
| | | Rear | mm | 1070 | | | |
| 12 | Min. steering radius | | mm | 2800 | | | 2850 |
| 13 | Min. ground clearance | | mm | 130 | | | |
| 14 | Front overhang | | mm | 920 | | | |
| 15 | Rear overhang | | mm | 620 | | | 610 |
| 16 | Traction hook height | | mm | 350/450 | | | |
| 17 | Tyre | Front | mm | 6.50-10-10PR | | | |
| | | Rear | mm | 28×9-15-14PR | | | |
| 18 | Service brake | | | Hydraulic brake & electric brake | | | |
| 19 | Parking brake | | | Mechanical brake | | | |
| 20 | Driving type | | | Rear drive | | | |
| 21 | Driving motor power | | kW | 12(AC) | | | 16.6(AC) |
| 22 | Steering motor power | | kW | 1.35 (DC) | | | |
| 23 | Battery voltage/capacity | | V/Ah | 48/404 | 48/404 | 48/404 | 80/404 |
| 24 | Battery weight | | kg | 290 | 290 | 330 | 385 |
| 25 | Driving control mode | | | Electronic stepless mode | | | |
| 26 | Operator's ear noise | | dB | <70 | | | |

| Standard configuration | Optional configuration | | Lithium battery options |
|---|---|---|---|
| Enclosed cab | Front traction base | Solid tire | 48V/456Ah (PENGCHENG) |
| pneumatic tyre | Solid tire | Emergency power | 48V/404Ah (HEDING) |
| Liquid crystal meter | Rotating warming light | Rotating warming light | QYD80/100/120-J1Li |
| Driver's tool | Customized painting | Single cooling air conditioner(QYD150) | 80V/456Ah (PENGCHENG) |
| Two wheel braking | Air heater | | 80V/404Ah (HEDING) |
| Pin | Front traction base | | QYD150-J1Li |


**ANHUI HELI CO., LTD.**
**Add** / No.668, FangXing Road, Hefei, China
**Fax** / +86-551-63639966
**Tel** / +86-551-63639068(America); 63639258(Europe);
63639358(Asia); 63662105(Africa & Middle East)


LinkedIn Youtube Facebook


* Our products are subject to improvements and changes without notice.



Zhongjia(Hefei)Color Printing 2019.09


HELI

# 8-15 t

## G series lithium battery tractor




www.heliforklift.net



## Brief introduction

G series 8-15t lithium battery tractor which has popular appearance and reliable performance is a new generation of environment friendly tractor designed by HELI. With ergonomic design principle, driving comforts in sitting, operation space and environmental protection are ensured.
The four-wheel truck is powered by lithium battery. The steering wheel is front wheel and the drive wheel is rear wheel. With fully hydraulic-powered brake technology, the brake is easy and reliable. Imported CURTIS controller with stepless speed regulation is assembled on the truck. The truck has low noise, powerful traction force, easy operation and flexible steering.

## Lithium battery advantages

The superiority of HELI lithium battery tractor is embodied in the used-cost within product lifecycle. Compared with lead-acid battery tractor, HELI lithium battery tractor is more convenient for multiple working shifts. It has lower implicit cost and more economical total running cost.

### Environment Friendliness

- Zero emission
- Low noise
- Free of heavy metals
- No corrosion
- No acid mist volatilization

### Maintenance Free

- Unnecessary of fluid adding and dust proofing
- Daily maintenance free
- Manual maintenance free

### Long Service Life

- Over 75% capacity reserved after 4000 shifts operation
- Longer service life than lead-acid battery in equal working condition
- 5 years or ten thousand hours quality guarantee for high performance lithium battery assembly

### Suitable for working in both high and low environment

- Lithium battery is better than lead-acid battery when working between -25°C and 55°C

### High Efficiency and Energy Saving

- 2 hours charging meet 6-8 hours working demand
- High-energy density, self discharging rate lower than 1% per month
- 95% energy conversion rate,superior charging and discharging performance
- Flexible to charge, easy to operate, no impact on battery life
- Unnecessary to change battery, cost saving

## Drive system

- Special drive axle for AC type electric tractor is assembled to ensure low noise, large speed ratio, no pollution, stable travelling and good sealing condition. With large underclearance, good passing ability is ensured.





## Electric system

- The most advanced imported AC type chopper, CAN bus communication and closed-loop control mode offer the truck high efficiency, low heat, high safety, simple drive electric circuit, high chopper frequency. And the stable system current is ensured, the heat generated by motor and battery is reduced and reliability is greatly improved.
- Working hour, battery electric quantity, travelling speed and fault code are shown through excellent meters.

## Superior intellectualized design

- Superior intellectualized designs not only ensure operator and truck safety but also improve working efficiency, reduce energy consumption.




## Steering system

- With fully hydraulic powered horizontal cylinder steering axle, the steering is flexible and easy. The steering system has high efficiency, easy operation and long service life.

## Brake system

- Fully hydraulic powered brake technology offers easy and reliable brake.

## Operating system

- Proper angle and position of braking pedal and acceleration pedal and slight pedal force fully satisfy ergonomic requirements.
- Adjustable steering wheel fits different operator' s size.
- With good brake effect in cold condition and enough brake force, national mandatory performance standards in service brake and parking brake are satisfied.
- With inching button, safe and precise connection between the tractor and trailer is ensured through inching forward or backward.





